INTERNATIONALSEARCHREPORT

International application No. PCT/JP2005/001294

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl. H01L21/205, 21/20, 33/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl. HO1L21/205, 21/20, 33/00, 21/304, C23C16/00-16/56, H01S5/323, 5/343

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Published examined utility model applications of Japan 1922-1996 Published unexamined utility model applications of Japan 1971-2005

Registered utility model specifications of Japan 1996-2005

Published registered utility model applications of Japan 1994-2005

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

Category*	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
A	US 2003/0207125 A1 (Haruo Sunakawa) 2003.11.06, paragraph[0114]-[0117],[0148]-[0153] & JP 2001-122693 A.		1-17
A	JP 10-125608 A (SHOWA DENKO K.K.) 1998.05.15, paragraph[0023]-[0027] (Family: none)		1-17
X	JP 2000-319099 A (Hiroyuki Matsunami) 2000.11.21, paragraph[0035]-[0040] & WO 2000/068474 A1		13-15
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Further documents are listed in the continuation of Box C. See patent family annex.			
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention cannot be considered novel or cannot be considered novel or cannot be considered novel or cannot be considered to involve a inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document be considered to involve an inventive step when the document combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family			derlying the invention the claimed invention cannot e considered to involve an s taken alone the claimed invention cannot we step when the document is ther such documents, such son skilled in the art
Date of the actual completion of the international search		Date of mailing of the international search report	
26.04.2005		17.5.2005	
Name and mailing address of the ISA/JP		Authorized officer	4R 8831
Japan Patent Office		Ryu Ikefuchi	L
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